

# SHELL TURBO® Oil J32

## Premium industrial turbine oil

SHELL TURBO® Oil J32 has been specially formulated to satisfy the demanding requirements of MHI (Mitsubishi Heavy Industry) non-g geared steam and gas turbines. This is based on a blend of specially chosen high quality hydrotreated base oils with selected additives to enhance their rust and oxidation properties.

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### Performance Features and Benefits

- **Good thermal and oxidation stability**

Resists the formation of sludge and other harmful products of oxidation. Long oil life, performance proved over many years in service.

- **Excellent corrosion protection**

High level of corrosion protection of all metal surfaces.

- **Excellent oil/water separation properties**

Easy drainage of excessive water from lubrication systems.

- **Good air release characteristics**

Effective air release without excessive foaming.

- **Reliable performance in MHI turbines**

SHELL TURBO® Oil J32 meets the requirements of MHI turbines and has been successfully tested in the MHI in-house dry TOST test.

SHELL TURBO® Oil J32 is approved by MHI against their specifications Turbine Oil Type 2 (additive) MS04-MA-CL001 (R-1) and MS04-MA-CL002 (R-1).

### Main Applications

- **Power generation MHI turbines**

SHELL TURBO® Oil J32 may also be used for other industrial applications requiring high quality rust and oxidation (R & O) inhibited oils, which separate easily from water.

Advice on applications not covered in this handbook may be obtained from your Shell representative.

### Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

### Protect the Environment

Do not discharge into drains, soil, or water.

## Typical Physical Characteristics

SHELL TURBO® Oil J32			
Kinematic Viscosity	@ 40°C	cSt	32
	@ 100°C	cSt	5.3
Viscosity Index			104
Color (ASTM D 1500)			10.5
Flash Point (COC)		°C	222
Pour Point		°C	-18
Total Acid Number			0.05
Foaming			
Sequence I			30/Nil
Sequence II			20/Nil
Sequence III			30/Nil
Water Separability (ASTM D 1401) @ 54 °C		ml (min)	40-40-0(10)
Air Release (ASTM D 3427)		min	<4
Copper Corrosion (3h/100 °C)			1b
Rust Control (ASTM D665B)			Pass
Oxidation Control Tests			
TOST Life (ASTM D 943)		hr	>8000
Dry TOST (MHI method)			Pass
RPVOT (ASTM D 2272)		min	>950

*These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.*